

# Chapter 7 Answers

## Practice 7-1

1. (1, 2) 2. (4, 3) 3. no solution 4. (-1, 3) 5. (7, 4)
6. infinitely many solutions 7. (-5, 2) 8. no solution
9. (-1, -1) 10. (0, -3) 11. (6, 6) 12. (-2, -4)
13. no solution 14. (-3, 5) 15. (7, 11) 16. infinitely many solutions
17. (8, 7) 18. (-2, -2) 19. (5, 6) 20. (1, -2)
21. (5, 4) 22. (-3, 3) 23. no solution 24. (0, 0)
25.  $(\frac{1}{2}, \frac{1}{2})$  26.  $(\frac{3}{2}, \frac{3}{2})$  27.  $(-\frac{1}{2}, 0)$  28.  $(-4, -2\frac{1}{2})$
29. (13, 19) 30. (8, 22) 31. (18, 16) 32. no solution
33. (25, -30) 34. (0, -10) 35. (40, 30) 36. (28, 14)
37. no solution 38. (36, 42) 39. (16, 24) 40. (18, -8)
41. (-1.5, -2.25) 42. (-2, -1) 43. (1.5, -2.5)

## Practice 7-2

1. (1, 1) 2. (2, 6) 3. (5, 5) 4. (-3, 2) 5. (0.6, 8) 6. (7, 4)
7. (5, -2) 8. infinitely many solutions 9. (100, 50)
10. no solution 11. (1, 9) 12. (-2, -3) 13. infinitely many solutions
14. no solution 15. (1, -2) 16. (-2, -2)
17. no solution 18. infinitely many solutions 19. (4, 8)
20. (2, -2) 21. no solution 22. (-3, 0) 23. (0, -1)
24. infinitely many solutions 25.  $(3, -\frac{2}{3})$  26. (1.5, 3.6)
27. (6.7, 2.4) 28. infinitely many solutions 29. (13, 11)
30. no solution 31. (10.5, 8.2) 32. (-6, -24) 33. infinitely many solutions
34. (28, -36) 35. no solution
36. (-18, -30) 37. 88 cones 38. paint: \$17/gal, brush: \$5.50

## Practice 7-3

1. (1, 3) 2. (4, 8) 3. (7, 6) 4. (2, -1) 5. (2, 0) 6.  $(\frac{1}{2}, 2)$
7. (2, -2) 8. (6, -1) 9. (18, 12) 10. (3, 6) 11. (-1, 5)
12. (0, 2) 13. (5, 7) 14. (-1, -3) 15. (0, 0) 16.  $(4, -\frac{1}{3})$
17. (8, 7) 18. (2, 6) 19. (4, 11) 20. (3, 9) 21. (11, 7)
22. (8, -3) 23. (7, -3) 24. (0, 8) 25. (-1, 2) 26. (1, 6)
27. (8, -1) 28.  $(\frac{3}{2}, 3)$  29. (4, -3) 30. (7, -9) 31. (4, 3)
32. (-7, 11) 33. (9, 2) 34. (6, 13) 35.  $(-3, \frac{2}{3})$
36. (1, 1) 37. (2, 5) 38. (8, 1) 39. (10, -3) 40. (7, -7)
41. (8, 8) 42. (2, 3) 43. (9, 7) 44. (6, 11) 45.  $(-\frac{1}{9}, 1)$
46. shirts: \$7.50; pants: \$18.50 47. 20 cherry pies; 16 apple pies

## Practice 7-4

1. 30 2-pt; 10 4-pt 2. 15 offices 3. \$20; \$15
4. 2.5 mi/h; 0.5 mi/h 5. 150 min/wk; 100 min/wk
6. 89 T-shirts 7. 160 mi/h, 10 mi/h 8. \$2.50; \$1.50
9. 330 spaces; 120 spaces 10. 37.5 m/min; 12.5 m/min

## Practice 7-5

